



Evidence Integration in Chemical Assessments: Challenges Faced in Developing and Communicating Human Health Effect Conclusions

The National
Academies of
SCIENCES
ENGINEERING
MEDICINE

June 3-4, 2019

NAS Building | 2101 Constitution Avenue NW | Washington, DC | Lecture Room

Monday, June 3, 2019

8:30 **Welcome and Overview of the Workshop**
Ivan Rusyn, Texas A&M University*

**SESSION I: Lessons Learned from Recent International Workshops on
Evidence Integration in Risk Assessment**

8:35 **Combining Apples and Oranges: Lessons Learned and Advances Made through International
Collaboration**
Katya Tsaoun, Johns Hopkins University*

9:05 *Break*

9:20 **Panel Discussion:**
Moderator: Holger Schünemann, McMaster University*
*Discussants: Marios Georgiadis, European Food Safety Authority; Kris Thayer, US Environmental
Protection Agency; Katya Tsaoun*, Johns Hopkins University; Paul Whaley, Lancaster University*

10:30 **Poster Session** (East Court adjacent to Lecture Room)

11:30 *Lunch (Will not be provided. There is a cafeteria on Lower Level)*

SESSION II: Best Practices in Evidence Integration

12:30 **Perspectives on Common Elements for Evidence Integration**
Weihshueh Chiu, Texas A&M University

1:00 **Emerging Strategies for Evidence Integration**
Bette Meek, University of Ottawa

1:30 **Experience with Incorporating GRADE-Based Evidence Integration Frameworks into Environmental
Health Evaluations**
Kris Thayer, US Environmental Protection Agency

* Member of workshop organizing committee.

2:00	Panel Discussion: <i>Moderator: Joyce Tsuji*, Exponent</i> <i>Discussants: Session II speakers; Sam Cohen, University of Nebraska; Jennifer McPartland, Environmental Defense Fund</i>
3:00	<i>Break</i>
SESSION III. Approaches for Using Mechanistic Data to Integrate Evidence from Animal and Human Studies: General Considerations	
3:15	Practical Challenges in Assessing Indirectness and the Implications for Integrating Multiple Streams of Evidence in Systematic Reviews <i>Paul Whaley, Lancaster University</i>
3:45	Investigating the Causality of Adverse Effects: Mechanistic Toxicology Meets Epidemiology <i>Jean-Lou Dorne and Marios Georgiadis, European Food Safety Authority</i>
4:15	Panel Discussion: <i>Moderator: Katya Tsaioun*, Johns Hopkins University</i> <i>Discussants: Session III speakers; Andrew Rooney*, National Toxicology Program</i>
5:00	<i>End of Day 1</i>
Tuesday, June 4, 2019	
8:30	Welcome and Opening Remarks <i>Ivan Rusyn*, Texas A&M University</i>
SESSION IV. Systematic Review-Enabled Evidence Integration: Case Studies	
8:40	Case Study 1: Systematic Review-Enabled Evidence Integration for Predictive Modeling of Endocrine Disruption Pathways <i>Nicole Kleinstreuer, National Toxicology Program</i>
9:00	Panel Discussion: <i>Moderator: Ivan Rusyn*, Texas A&M University</i> <i>Discussants: Session IV speakers</i>
9:40	Case Study 2: Integrating Evidence across Multiple Exposures: Applying the OHAT Framework to Traffic-Related Air Pollution and Hypertensive Disorders of Pregnancy <i>Brandy Beverly, National Toxicology Program</i>
10:00	Panel Discussion: <i>Moderator: Ivan Rusyn*, Texas A&M University</i> <i>Discussants: Session IV speakers</i>
10:40	<i>Break</i>
11:00	Case Study 3: Use of Mechanistic Data for Evidence Integration across PCBs as a Chemical Class <i>Larry Robertson, University of Iowa</i>
11:20	Panel Discussion: <i>Moderator: Ivan Rusyn*, Texas A&M University</i> <i>Discussants: Session IV speakers</i>
12:00	<i>Lunch (Will not be provided. There is a cafeteria on Lower Level)</i>

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1:00	Poster Session (East Court adjacent to Lecture Room)
SESSION V. Practical Approaches to Expedited Evidence Integration	
2:00	A Streamlined, Scientifically Rigorous Approach to Categorize Health Hazards [NASEM 2018: Review of Report and Approach to Evaluating Long-Term Health Effects in Army Test Subjects] <i>Ivan Rusyn*, Texas A&M University</i>
2:30	Elk River Chemical Spill Assessments <i>Michael Dourson, Toxicology Excellence for Risk Assessment</i>
3:00	Clinical Research Applications: Influenza Virus Drugs <i>Holger Schünemann*, McMaster University</i>
3:30	Panel Discussion: <i>Moderator: Ana Navas-Acien*, Columbia University</i> <i>Discussants: Session V Speakers; Stan Barone, US Environmental Protection Agency; Tracey Woodruff, University of California at San Francisco;</i>
4:30	Closing Remarks <i>Holger Schünemann*, McMaster University</i>
4:45	<i>Workshop Adjourns</i>

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